

Amended Claims

In the claims, please enter the following amendments:

- A1
1. (Amended) In a digital data processor chassis of the type having a plurality of slots, each for slidable insertion of a respective circuit board, the improvement wherein at least one slot comprises

a first set of one or more air flow apertures disposed adjacent a location of a first edge of a plenum in which are contained one or more circuit components of the respective inserted circuit board, the first set of air flow apertures comprising an air flow source for the plenum,

a second set of one or more air flow apertures disposed adjacent a location of a second edge of the plenum of the respective inserted circuit board, the second set of air flow apertures comprising an air flow exit for the plenum,

the first and second sets of air flow apertures being arranged to pass air flow through the plenum of the respective inserted circuit board, and at least one of the first and second sets of air flow apertures having plural air flow apertures.

at least one of the first and second sets of air flow apertures being sized so that an impedance to air flow passing through the respective inserted circuit board substantially matches impedances to air flow passing through one or more other boards inserted in one or more other slots in the chassis, which one or more other inserted boards would otherwise have different impedances to air flow than the respective inserted circuit board.

2. (Original) In the digital data processor of claim 1, the improvement wherein the chassis comprises a cabinet with an air flow inlet.
3. (Amended) In the digital data processor of claim 2, the improvement wherein the air flow inlet provides to the first set of air flow apertures cooling air flow drawn from an environment outside the cabinet.

Page 3

4. (Amended) In the digital data processor of claim 3, the further improvement wherein the second set of air flow apertures provides air flow to any of the environment outside the chassis or a region within the cabinet.

Please delete claims 5 and 6.

5. (Original) ~~In the digital data processor of claim 1, the further improvement wherein any of the first and second apertures are sized so that the impedance to air flow to the circuit board inserted in the slot substantially matches that to one or more other boards in the chassis.~~

6. (Original) ~~In the digital data processor of claim 1, the further improvement wherein any of the first and second apertures are sized so that the impedance to air flow to the circuit board inserted in the slot is sized in relation that to one or more other boards in the chassis.~~

7. (Original) In the digital data processor of claim 1, the further improvement wherein the chassis is any of a vacuum or dip brazed.

8. (Amended) A card cage for a digital data processor, comprising a plurality of slots for circuit boards, each slot comprising

an upper guide that receives an upper portion of a respective circuit board, the upper guide having one or more air flow apertures disposed adjacent a location of an upper edge of the respective circuit board,

a lower guide that receives a lower portion of a respective circuit board, the lower guide having one or more air flow apertures disposed adjacent a location of a lower edge of the respective circuit board,

the one or more apertures of the upper or lower guide comprising an air flow source for a circuit component-containing plenum of the respective circuit board, the one or more apertures of the other guide comprising an air flow exit for that plenum of the respective circuit board

the first and second sets of air flow apertures being arranged to pass air flow through the plenum and at least one of the first and second sets of air flow apertures having plural air flow apertures.

Page 4

at least one of the first and second sets of air flow apertures being sized so that an impedance to air flow of the respective circuit board substantially matches impedances to air flow to one or more other boards inserted in slots in the chassis, which one or more other boards would otherwise have different impedances to air flow than the respective circuit board.

9. (Original) A card cage of claim 8, the further improvement wherein the card cage is brazed.

10. (Original) A card cage of claim 9, the further improvement wherein the card cage is any of vacuum or dip brazed.

11. (Original) A card cage of claim 8, wherein a first slot and a second slot are arranged to be disposed on opposing sides of an air flow source.

Cont
A1
Please cancel claim 12.

~~12. (Original) A card cage of claims 8, wherein the air flow apertures of a slot are sized so that impedance to air flow to the respective circuit board any of substantially matches or is sized in relation to that to one or more other circuit boards.~~

13. (Original) A digital data processor comprising

a chassis comprising a covering and a plurality of slots for circuit boards,

each slot comprising

an upper guide that receives an upper portion of a respective circuit board, the upper guide having one or more air flow apertures disposed adjacent a location of an upper edge of the respective circuit board,

a lower guide that receives a lower portion of a respective circuit board, the lower guide having one or more air flow apertures disposed adjacent a location of an lower edge of the respective circuit board,

the one or more apertures of the upper or lower guide comprising an air flow source for a circuit component-containing plenum of the respective circuit board, the one

Page 5

or more apertures of the other guide comprising an air flow exit for that plenum of the respective circuit board

the air flow apertures of the upper and lower guides being arranged to pass air flow through the plenum of the respective circuit board, and at least one of the upper and lower guides having plural air flow apertures.

at least one of the first and second sets of air flow apertures being sized so that an impedance to air flow of the respective circuit board at least one of (i) substantially matches impedances to air flow of one or more other boards inserted in other slots in the chassis, and (ii) is sized in known relation to impedances to air flow of one or more other boards inserted in other slots in the chassis, which one or more other boards would otherwise have different impedances to air flow than the inserted board.

~~at least a first and second ones of the slots being disposed on opposing sides of an air flow inlet provided in the chassis covering.~~

14. (Original) The digital data processor of claim 13, wherein

at least a selected circuit board comprises a plenum,

the air flow apertures of a slot in which the selected circuit board is inserted are arranged to pass air flow through the plenum.

15. (Amended) The digital data processor of claim 14, wherein at least the a-selected circuit board comprises

a substrate and one or more circuit components thereon, and

a cover affixed to the circuit board, a plenum being defined in a region between the cover and the circuit board.

16. (Original) The digital data processor of claim 14, wherein the air flow apertures of a slot in which the selected circuit board is inserted are arranged to pass air flow through the plenum.

Page 6

17. (Original) The digital data processor of claim 13, wherein at least one of the slots provides an air-tight junction with the respective circuit board.
18. (Original) The digital data processor of claim 13, the further improvement wherein the card cage is brazed.
19. (Original) The digital data processor of claim 13, the further improvement wherein the card cage is any of vacuum or dip brazed.
20. (Original) The digital data processor of claim 13, wherein the air flow inlet is centrally disposed on the chassis covering.
21. (Amended) The digital data processor of claim 13, comprising a fan that any of pulls and pushes air through the chassis.
-